

Crystal Data: Isometric. *Point Group:* $4/m\bar{3}2/m$. As octahedral crystals, to 0.1 mm.

Physical Properties: *Cleavage:* None. *Fracture:* Irregular. *Tenacity:* Brittle.
Hardness = n.d. D(meas.) = n.d. D(calc.) = 5.393

Optical Properties: Transparent. *Color:* Reddish brown. *Streak:* Pale yellow.
Luster: Vitreous to resinous.
Optical Class: Isotropic. $n(\text{calc.}) = 1.950$

Cell Data: *Space Group:* $Fd\bar{3}m$. $a = 10.3042(7)$ $Z = 8$

X-ray Powder Pattern: Buca della Vena mine, Stazzema, Apuan Alps, Tuscany, Italy.
1.824 (vs), 1.556 (vs), 2.977 (s), 3.105 (m), 2.576 (m), 1.984 (m), 1.489 (m)

Chemistry:	(1)	(2)
Sb ₂ O ₅	[63.73]	74.26
Sb ₂ O ₃	[10.93]	
TiO ₂	3.53	
SnO ₂	0.28	
V ₂ O ₃	0.68	
Al ₂ O ₃	0.28	
PbO	0.68	
FeO	5.52	
MnO	0.13	
CaO	13.68	25.74
Na ₂ O	0.83	
F	1.20	
-O = F ₂	0.51	
Total	100.96	100.00

(1) Buca della Vena mine, Stazzema, Apuan Alps, Tuscany, Italy; average of 6 electron microprobe analyses, Sb₂O₅:Sb₂O₃ calculated using crystal-chemical considerations; corresponding to (Ca_{1.07}Fe²⁺_{0.34}Sb³⁺_{0.33}Na_{0.12}Pb_{0.01}Mn_{0.01})_{Σ=1.88}(Sb⁵⁺_{1.73}Ti_{0.19}V_{0.04}Al_{0.02}Sn_{0.01})_{Σ=1.99}(O_{6.68}F_{0.28})_{Σ=6.96}.
(2) Ca₂Sb₂O₆O.

Mineral Group: Pyrochlore supergroup, roméite group.

Occurrence: In calcite-barite veins cutting deformed metavolcanic-metasedimentary rocks.

Association: Calcite, cinnabar, derbylite, dolomite, hematite, 'mica', pyrite, sphalerite, 'tourmaline'.

Distribution: At the Buca della Vena mine, Stazzema, Apuan Alps, Tuscany, Italy. Also from Långban, Värmland, Sweden.

Name: For a member of the *roméite group* with dominant oxygen (as OH) in the Y structural site and calcium in the A structural site.

Type Material: At the Natural History Museum, University of Pisa, Italy (19640).

References: (1) Biagioni, C., P. Orlandi, F. Nestola, and S. Bianchin (2013) Oxycalcioroméite, Ca₂Sb₂O₆O, from Buca della Vena mine, Apuan Alps, Tuscany, Italy: a new member of the pyrochlore supergroup. *Mineral. Mag.*, 77(7), 3027-3037. (2) (2015) *Amer. Mineral.*, 100, 2357-2360 (abs. ref. 1).